

S.EPIDERMIDIS STRAIN K28 SdrG

FIG. 1

SEQUENCES FLANKING INCLUDES 1 SdrF FOR SEQUENCE CODING

tegattaggaagtteacagtaggtacagctteaatgttt s I R K F T V G T A S I L V G A T L M F gaagaacagaaaggtagtcgtgataatgaaaactcaaaacttaatcaagtcgatttagac ${
m E}$ ${
m E}$ ${
m E}$ ${
m K}$ ${
m L}$ ${
m N}$ ${
m Q}$ ${
m V}$ ${
m D}$ ${
m L}$ ${
m D}$ aacggatcacatagttctgagaaaacaacaatgtaaacaatgcaactgaagtaaaaaaa NGSHSSEKTTNVNNATEVKK agaagacaaggaccaattaacaagagagtggaftttctatccaacaaggtaaacaagtac tattggataaattatgcttataaagtatttacataaaaatgtaatgcaatttacaagta gttgaagcaccaacgacaagtgacgtatctaagcctaaagctaatgaagcagtagtgacg aatgagtcaactaaaccaaaaacaacagaagcaccaactgttaatgaggaatcaatagct aatattcaaattatttccttgtaaaatatttattttaactggaggtatagt**at**gaaaaag 幺 Q X ഗ Z 4 ഗ > ഗ 回 X 团 回 回 α 니 Z Z Z ഗ 3 Ø Ø × Н Z H Ω ı Ĺц щ ſτι ρι Ω 回 × d > d ഗ لتا 回 Q × Z | | Н Ω × × × ß Z ¥ ഗ Н 回 Ø Д ρι Z × O Ω Д Z α Ø ഗ d K 口 3 [Y] G Z

F/G. 2

gaaacacccaaaacctcaactacacaaagattcgactgagaagaataatccatctta actaagcaagctcaaatgtctactaataaatcaaatttagacacaaatgactctccaact caaagtgagaaaacttcatcacaagcaaataacgacagtacagtaagtcagcacct O S E K T S S Q A N N D S T D N Q S A P totaaacaattagattcaaaaccatcagaacaaaagtatataaaaacaaaatttaatgat gaacctactcaagatgttgaacacacgacaactaaattaaaaacaccttctgtttcaaca gatagttcagtcaatgataagcaagattacacacgaagtgctgtagctagtttaggtgtt D S S V N D K Q D Y T R S A V A S L G V aaccetgattatggtgtegataegecattagetetaaacagateteaateaaaaattea NPDYGVDTPLALNRSOSKNS gattctaatgaaacagaagcaattacaaatgcagttagagacaatttagatttagatttaaaagct Н S H Ω Z S × ഗ I Ω_{i} H Н ഗ Гц > Ω α 口 × \Box \Box α S Ω × Z Z Н Z Н Д Н ¥ Н \cong × × Z H Н Ω Ω S d 团 \Rightarrow X > Н 团 Н K 回 \forall > 4 × X S \bowtie Z **က**့ α Ø S Н H Ω Q Z Н H X 回 H Ø d H Z S ЕН H Н 国 H ഗ α Д 二 H Н ഗ X 回 d വ ഗ Z > ഗ S Σ ഗ ഗ 回 Н α Ω H Q Н Z Н Ω d Н α Н × 闰 团 Ø Z 回 Н Z ഗ × ഗ S ρι × Н S 团

ggtaaaaatgtgaatgataaagttaaaatcacaaaccctacgctttcacttaataagagt G K N V N D K V K I T N P T L S L N K S

aataatcacgctaataacgtaatatggccaacaagtaacgaacaatttaatttaaagca

ocacataagagtgcaagtccacgcatgaatttaatgagtttagctgctgagcctaatagt

Z

Д

回

æ

r T

ഗ

Σ

H

Z

Σ

×

Д

ഗ

d

S

X

工

н

:

gtgacttatctcaatggttcttcaacagcacaggggggataatcctacatatagtctaggt gcaggtgtttatgttactcttaaagacagtaacaatagagaattacaacgtgtaactact A G V Y V T L K D S N N R E L Q R V T T gatcaatctggacattatcaatttgataatttacaaaatggaacgtacacagtcgagttt gogattootgataattataogocatotooogoaaataattotaoaaatgatgoaatagat gctgataatatgactgtagatactggcttttatttaactcctaaatacaatgtcggagat A D N M T V D T G F Y L T P K Y N V G D tatgtatgggaagatacaaagatggtatccaagatgacaatgaaaaaggaatttct Y V W E D I N K D G I Q D D N E K G I S agaaaggttta ggtgttaaagtaacgttaaaaaataaaatggagatactattggcacaacgacaaagat [II Ω 山 Н tcaaatggtaaattgaattcacaggtttagagaacggggattacacaatagaa 4 S [1] H Ω 口 H atd Ω × Z H H H gactatgtatggttagataaaaataaaaacggtgttcaagatgatg EH H G Д \succ ഗ Ω ഗ Z Ω Н Z \circ Z H \mathcal{O} Z \mathcal{O} Q Ω Z 4 Н Ö r α 回 A Z Д Н Z Z S × Ω × H G Д Z দ্র Z H S 公 Q H S ĮΉ Ω Н G × \Rightarrow 回 耳 Z Z H Ω Q 3 × ഗ ρι Ç α Н Z d Q

gaaaatggaagctacacagttgagtttgagacaccatcaggttatacaccgacaaaagcg ${\tt E}$ attcaagacgacagtgaaaaagggatttctgggggttaaagtgacgttaaaagataaaaat I Q D D S E K G I S G V K V T L K D K N ggaaatgccattgggacaacgacaacagacgcaagtggtcattatcaatttaaaggatta acgeeggaaggetacacacegaetaaacaaaactegggaagtgaeggaaggtaaagattea ttotacaagccaacatataacttaggtgactatgtatgggaagatacaaataaagatggt F Y K P T Y N L G D Y V W E D T N K D G aacggtacgaaaacaacagtcacagtcaaagatgcagattaataataaaacaatagactcaggt G ഗ × \simeq Q [z₄ G H α 回 H × × 二 S Z Ω ᠐ Ç ß Q S 4 Ω Z Q × α Д > ¥ H H H > μ EH H EH r ഗ × Д H 回 ᠐ ×

7 / 28

tecgatagtgattecgaegeagaegaetteggatteegatteagaeteegae S D S D S D S D S D S D S D S D S D teggatteagatagtgatteegaegeagaeagtgaeteagatagtgaeteggat S D S D S D A D S D S D S D S D S D tcagatagtgactcggattccgattccgacgcagacagcgattctgactcagat S D S D S D S D S D A D S D S D agtgattccgattccgatagcgattcagattctgatagtgactcagactcagacagtgac tcagattccgatagcgactcggattcagatagtgattccgacgcagacagtgactcagac S D S D S D S D S D S D A D S D S D agtgactcagacgcagatagtgattccgattccgatagcgattcggatgcagatgcagacagcgac ഗ Ω ď Ω ഗ ഗ Q Ω Ω K ഗ ഗ Ω Ω ഗ ഗ Ω Ω ഗ S Ω Ω ഗ ഗ Ω Ω Ω 4 ഗ Ω Ω ഗ ഗ Ω Ω

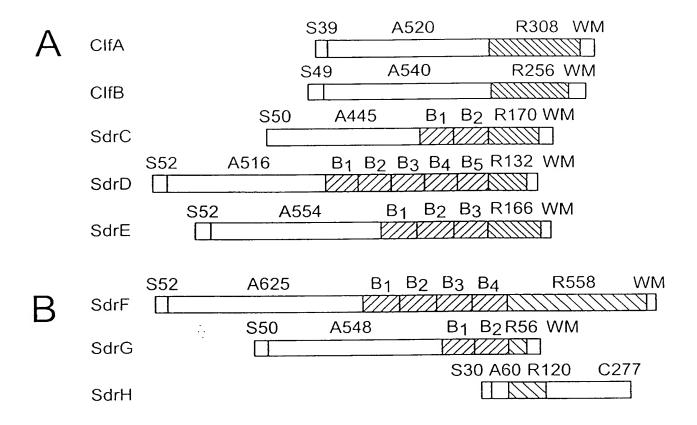
10/28

agegatteggatteegattgaeteggatteagaeagtgatteggaeteagaeagegae S D S D S D S D S D S D S D S D S D tecgatteagatagtgattecgaeteagaeagegatteegatagtgaeteggat S D S D S D S D S D S D S D S D S D tcagacagtgattcggactcagactccgattcagatagtgattccgacgcagac S D S D S D S D S D S D S D S D D D agogattcagattcagacagogactcagattcogatagtgattcogattcagacagtgac toggattccgatagtgactcagactcagactcagattcagatagcgactcagat S D S D S D S D S D S D S D S D S D tcagacagtgattcggactcagatagtgactccgattcagacagtgattccgat S D S D S D S D S D S D S D S D S D agcgactccgattcagattagtgattcggacgcagacagcgattccgatagtgactcggat S D S D S D S D A D S D S D S D tcagacagtgattcggactcagacagcgattccgattcagacagtgactcggactcagat S D S D S D S D S D S D S D S D S D S C ھُ \Box toggattctgataaaaatgcaaaagataaattacctgatacaggagcaaatgaag S Z വ ß Ω Ω S Ω Д വ S H Д Ω ഗ S Ω Ω ഗ ഗ D S Ω ഗ ഗ S Ω ഗ ഗ Q ഗ

gattetaaaggeaeattaggaaetttatttgeaggtttaggageattattattagga $\,$ D S K G T L G T L F A G L G A L L L G R R K K D N K E K \star H Y - F I H K L F caagecaggtctatatggagagaaatCatattaaattgaaaggagaaaaagatga Q A R S I W P G L K S Y - I E R R K R -A Н Ø H 니 Н H ტ gtatgg V W

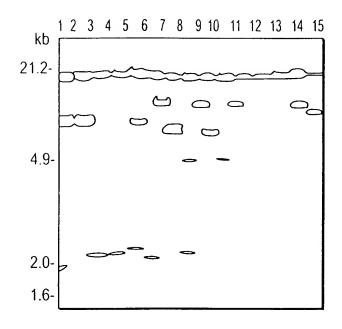
д 9 gta ∇ aattacattgaaatagtcaaagataaggagtttttatga**ttaaa**aaaaaataatttacta ggtacagcgtctattgtaataggtgcagcattattgtttggtttaggtcataatgaggcc ataaacaccgatgataaccaaataaaaaaagaagaaacgaatgccata I N T D D D N Q I K K E E T N S N D A I ഗ K \vdash ttcaca \bigcirc aaagctgaggagaatacagtacaagacgttaaagattcgaatatggatgatgaatta gaaaatcgctctaaagatataacacagtcaacaacaaatgtagatgaaaacgaagca tttttacaaaagaccctcaagataatactcagcttaaagaagaagtggtaaaagaa Q 回 Q H H aattcatcaatggatactgcccaacaaccatctcata Z 国 M 工 لتا g ىد aacga X 耳 \Box Z Z S \propto actaaaaagaaacctatagcaaataaatccaataaatatgcaattagaa X G X Ω 口 Д \times actctaga Н Σ X HQ 团 α Н R G Z > 团 Ø [TI × × S Z d П ¥ Н EH Н atattgcaaaaagacttatatatactatattgtatt Ω sednence Z لتا Н × H α Д d > S [1] S Σ × Z Q Q Z 又 S flanking Z ᠐ α α H Ω S 公 d > Q Н Н Z tca > Н \Box р S and tcagtcgaatcc Z α × Д Н H ഗ 又 S × X S 回 回 ¥ Ø C K > × EH A Z S G × H S

15 / 28 gttgagcaaacgatttatatttaaccctcttcgttattcagccaaagaaacaaatgtaaat $_{
m V}$ $_{
m E}$ $_{
m O}$ $_{
m I}$ $_{
m I}$ $_{
m I}$ $_{
m N}$ $_{
m P}$ $_{
m L}$ $_{
m R}$ $_{
m Y}$ $_{
m S}$ $_{
m A}$ $_{
m K}$ $_{
m E}$ $_{
m I}$ $_{
m N}$ $_{
m N}$ $_{
m N}$ atttcagggaatggcgatgaaggttcaacaattatcgacgatagtacaatcattaaagtt attacctacacttttacagattatgtagataaatatgaaaatattaaagcgcaccttaaa tataagacggccctttcatcagtaaataaaaqaattacggttgaatatcaaaaacctaac gaaaatcggactgctaaccttcaaagtatgttcacaaacatagatacgaaaaaccataca E N R T A N L Q S M F T N I D T K N H T ttaacatcatacattgataaatcaaaggttccaaataataacactaagttagatgtagaa Z Д Ω 耳 니 α 4 × × Н 团 Н > Z Z H Z 团 Н H Z H 云 വ ы 云 > D X A D Д × Z > ഗ ഗ × လ EH æ 니 ĮΉ H Q H Q 回



Sdrf SDSDSDSDSDSDSDKNAKDK<u>LPDTG</u>ANEDHDSKGTLLGTLFAGLGALLLGRRRKKDNKEK SdrG SDSDSDSGLDNSSDKNTKDK<u>LPDTG</u>ANEDHDSKGTLLGALFAGLGALLLGKRRKNRKNKN SdrH DKNHSAFKNHSADEITTNNDGHSKDYDKKKKIHRSLLSLSIAIIGIF<u>LGVTG</u>LYIFRRKK

FIG. 5



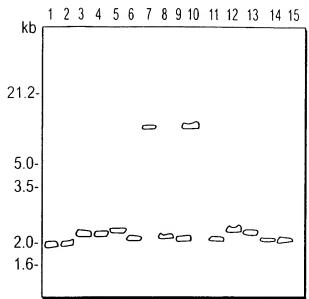
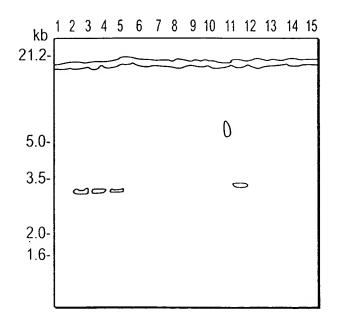


FIG. 6A

FIG. 6B



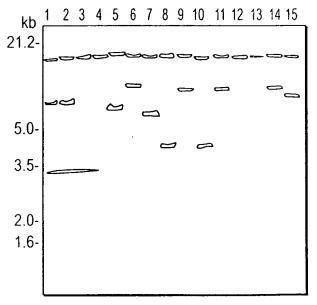


FIG. 6C

FIG. 6D

24 / 28 \mathbb{I} \sim က \sim 97--89 18 43-

FIG. 7C

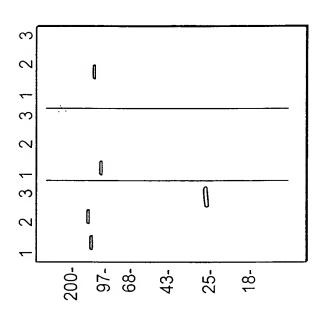


FIG. 7B

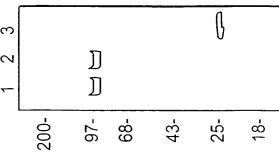
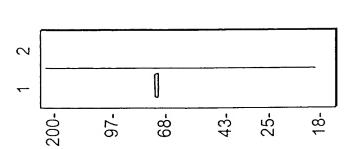


FIG. 7A



F/G. 8C

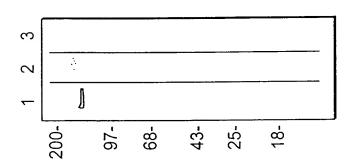
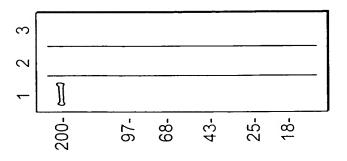


FIG. 8B

FIG. 8A



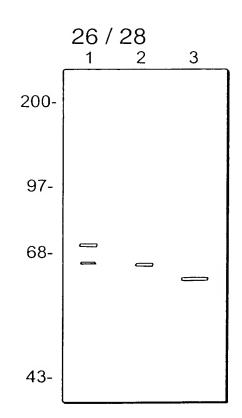


FIG. 9A

.

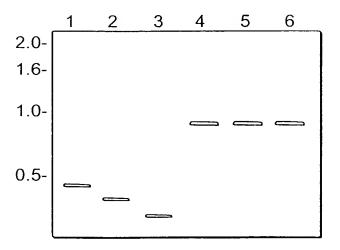


FIG. 9B

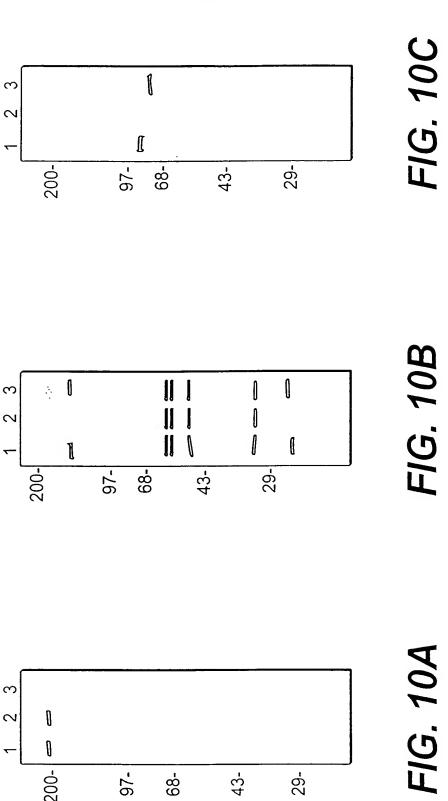


FIG. 10A

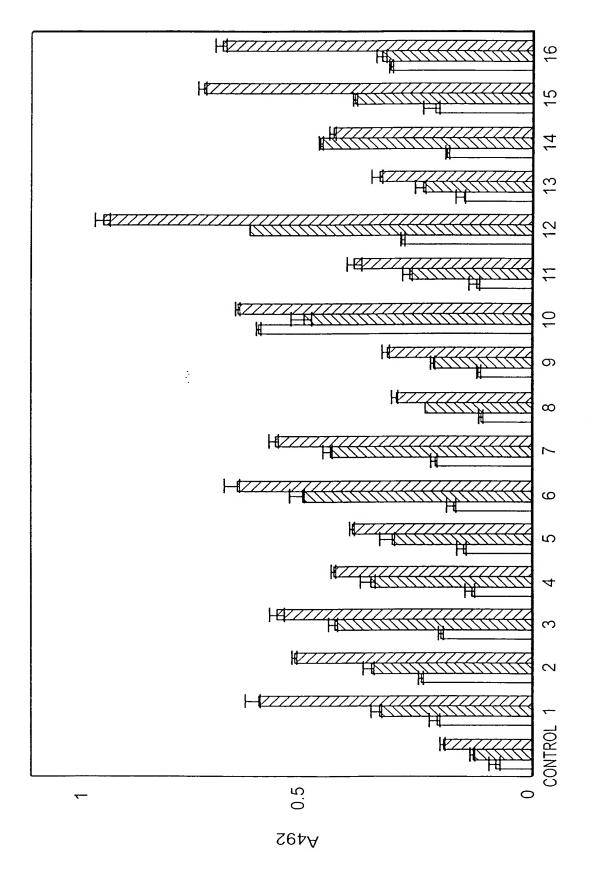


FIG. 11